

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P179239

Luminaire Tested: **UTLD-E02-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179239
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL2-HSS-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.7 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

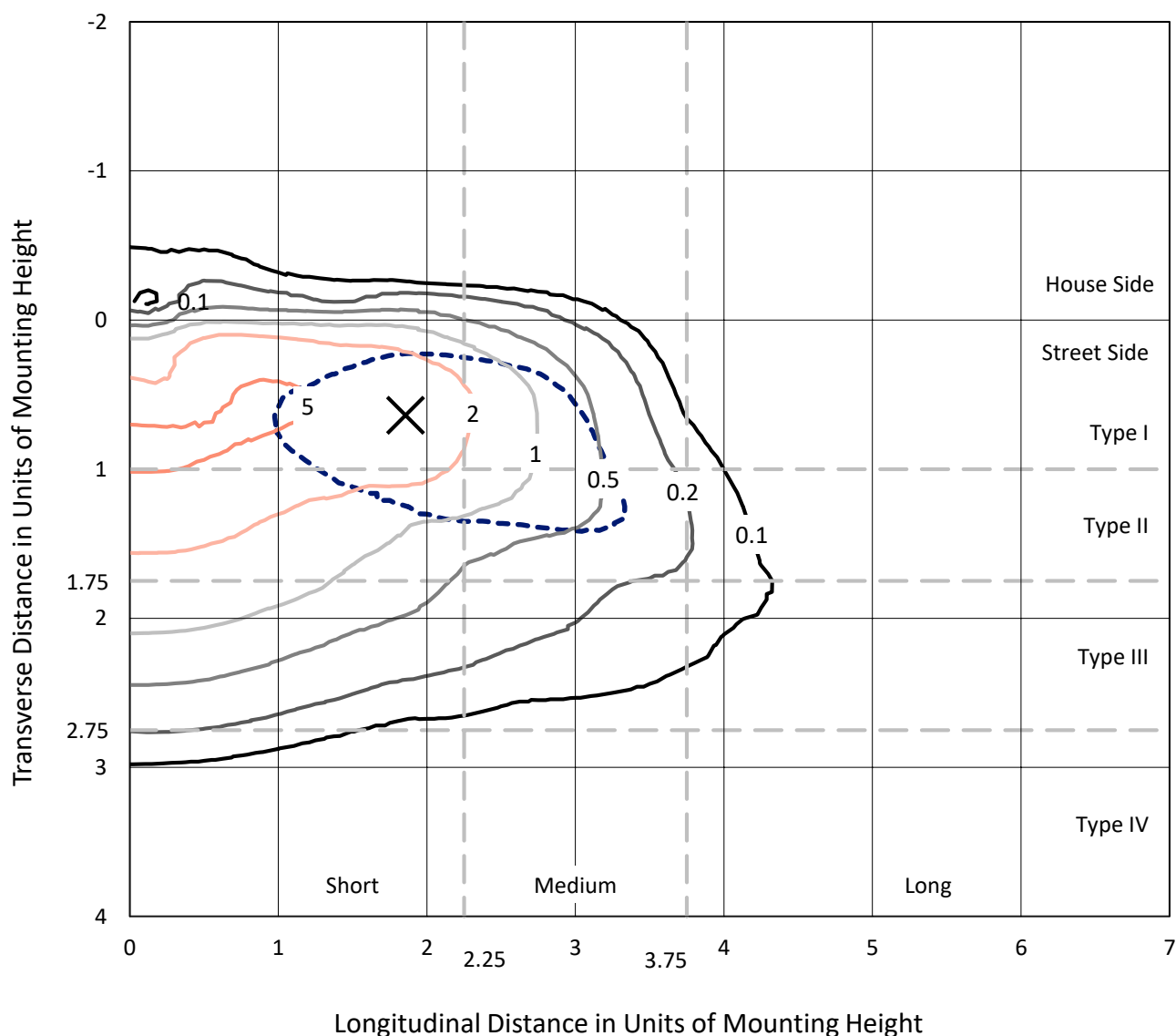


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

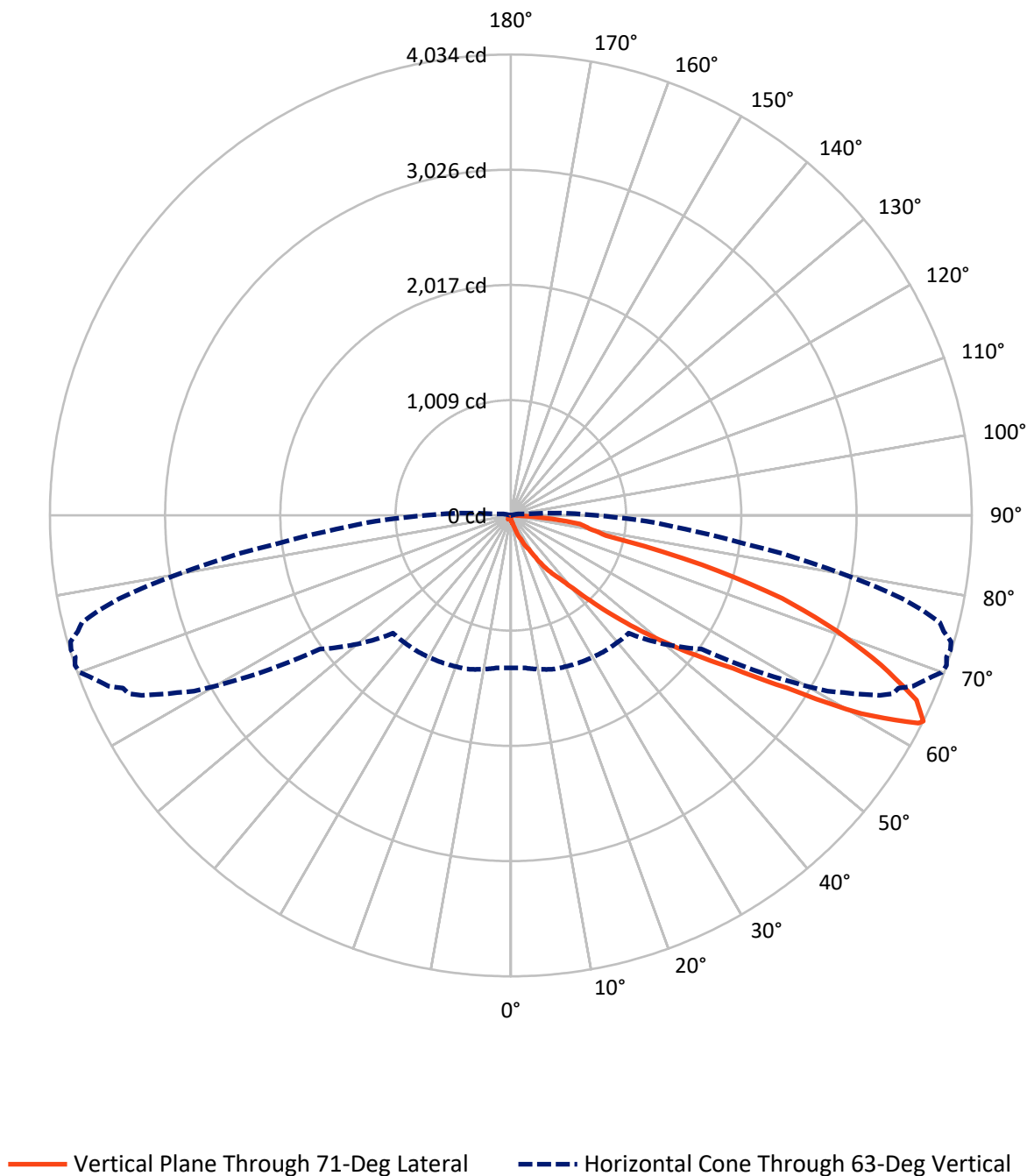


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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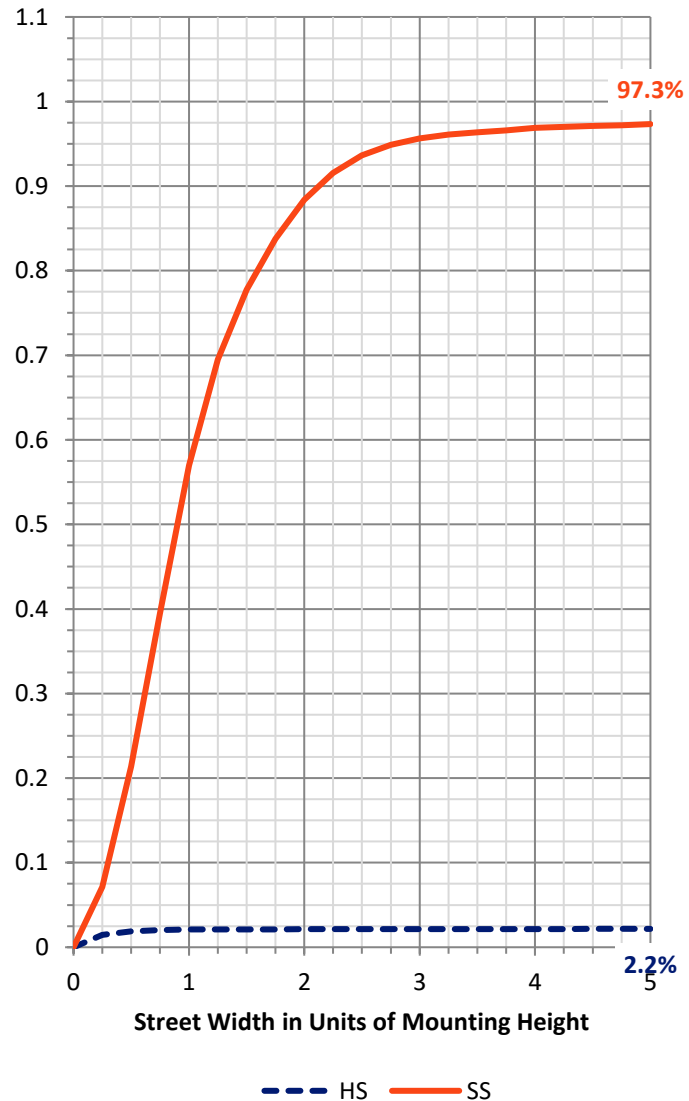
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.8	0.0	65.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2900.9	0.0	2900.9
	% Fixture	97.8	0.0	97.8
Total	Lumens	2966.7	0.0	2966.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	23.5	0.8
20°-30°	72.0	2.4
30°-40°	221.9	7.5
40°-50°	527.2	17.8
50°-60°	761.7	25.7
60°-70°	942.5	31.8
70°-80°	357.9	12.1
80°-90°	55.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2966.7	100.0
0°-180°	2966.7	100.0

Coefficient of Utilization



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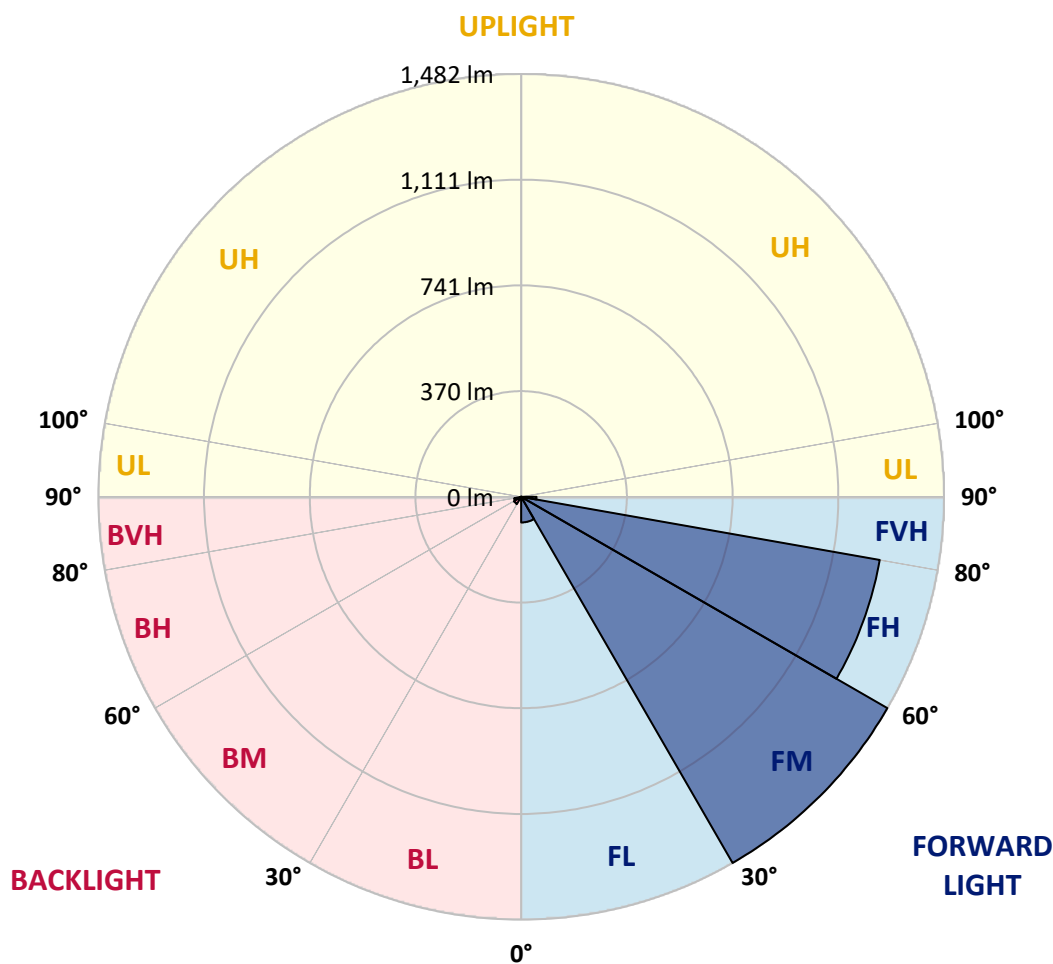
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	89.9	3.0			
FM	(30°-60°)	1481.5	49.9			
FH	(60°-80°)	1275.7	43.0			G1/1800
FVH	(80°-90°)	53.8	1.8			G1/100
BL	(0°-30°)	9.8	0.3	B0/110		
BM	(30°-60°)	29.2	1.0	B0/220		
BH	(60°-80°)	24.7	0.8	B0/110		G0/110
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	56.6	55.7	53.9	53.9	53.0	53.0	52.1	51.1	51.1	51.1	50.2
5°	66.7	65.8	63.0	60.3	60.3	58.5	54.8	53.9	53.0	52.1	52.1
7.5°	108.7	107.8	105.9	103.2	98.6	67.6	60.3	59.4	58.5	57.5	56.6
10°	121.5	121.5	120.6	116.9	112.3	105.0	95.9	69.4	67.6	68.5	71.2
12.5°	163.5	158.9	161.7	157.1	132.4	124.2	127.0	117.8	116.0	115.1	89.5
15°	174.4	169.9	161.7	162.6	166.2	176.3	143.4	135.2	130.6	127.9	127.9
17.5°	191.8	191.8	192.7	192.7	185.4	189.1	186.3	165.3	164.4	160.7	159.8
20°	235.6	233.8	208.2	196.4	216.5	221.0	221.9	190.9	184.5	183.6	189.1
22.5°	249.3	247.5	243.0	247.5	221.9	249.3	286.8	285.9	278.6	274.9	252.1
25°	317.8	315.1	298.7	255.7	273.1	274.0	310.5	313.3	311.5	317.8	337.0
27.5°	367.2	370.8	333.4	306.0	287.7	327.0	395.5	403.7	403.7	394.6	395.5
30°	467.6	465.8	424.7	355.3	347.1	351.6	435.7	464.0	487.7	473.1	489.6
32.5°	672.2	663.1	600.1	473.1	415.6	434.8	522.4	556.2	550.8	542.5	557.1
35°	968.2	961.8	832.1	710.6	597.3	552.6	617.4	674.1	662.2	688.7	698.7
37.5°	1176.4	1160.0	1104.2	981.9	871.3	797.4	824.8	802.8	800.1	818.4	816.5
40°	1329.8	1330.8	1311.6	1212.0	1131.6	1090.5	1094.2	1012.9	1007.4	1013.8	1001.0
42.5°	1404.7	1411.1	1426.7	1377.3	1344.5	1349.0	1385.6	1317.1	1314.3	1297.9	1248.5
45°	1450.4	1458.6	1506.1	1522.6	1512.5	1558.2	1657.7	1602.0	1606.6	1621.2	1550.9
47.5°	1455.9	1467.8	1529.9	1579.2	1619.4	1711.6	1864.1	1876.9	1890.6	1902.5	1850.4
50°	1402.0	1406.6	1485.1	1556.3	1615.7	1789.3	2021.2	2100.7	2125.4	2125.4	2081.5
52.5°	1304.3	1310.7	1385.6	1463.2	1519.8	1785.6	2122.6	2266.9	2321.7	2323.6	2260.5
55°	1262.3	1269.6	1326.2	1394.7	1423.0	1697.0	2184.7	2417.6	2475.2	2485.2	2447.8
57.5°	1262.3	1270.5	1316.1	1356.3	1370.9	1593.8	2222.2	2593.9	2658.8	2720.9	2719.0
60°	1318.9	1328.0	1364.5	1361.8	1348.1	1520.7	2205.7	2809.5	2914.5	3018.6	3138.3
62.5°	1351.8	1356.3	1406.6	1421.2	1418.4	1466.8	2077.0	2970.2	3132.8	3284.4	3543.8
63°	1333.5	1339.0	1394.7	1421.2	1444.9	1458.6	2041.3	2987.6	3171.2	3305.4	3593.1
65°	1234.8	1235.8	1295.1	1328.0	1488.8	1457.7	1850.4	2953.8	3178.5	3311.8	3632.4
67.5°	978.2	983.7	1024.8	1080.5	1229.4	1479.6	1590.1	2566.5	2793.9	2900.8	3257.9
70°	515.1	538.0	571.8	645.7	849.4	1256.8	1330.8	1890.6	2110.8	2269.7	2679.8
72.5°	156.2	145.2	189.1	276.7	432.0	869.5	1167.3	1335.3	1462.3	1620.3	2056.9
75°	70.3	72.2	82.2	117.8	189.1	466.7	1020.2	1096.9	1114.3	1168.2	1433.0
77.5°	40.2	41.1	48.4	66.7	98.6	232.9	772.7	983.7	970.0	989.2	1037.6
80°	26.5	27.4	34.7	47.5	54.8	114.2	438.4	767.2	812.0	861.3	896.9
82.5°	14.6	14.6	21.9	38.4	35.6	54.8	172.6	502.3	582.7	633.9	740.7
85°	6.4	7.3	12.8	25.6	21.9	25.6	83.1	170.8	195.5	205.5	255.7
87.5°	1.8	1.8	3.7	9.1	9.1	11.9	24.7	76.7	81.3	87.7	106.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	50.2	50.2	48.4	47.5	44.8	44.8	42.9	43.8	41.1	40.2	38.4
5°	51.1	51.1	51.1	51.1	50.2	50.2	50.2	50.2	50.2	50.2	49.3
7.5°	55.7	55.7	55.7	55.7	54.8	53.9	52.1	52.1	51.1	51.1	51.1
10°	71.2	70.3	68.5	67.6	66.7	65.8	63.9	64.8	63.0	63.9	62.1
12.5°	84.9	83.1	80.4	77.6	76.7	75.8	74.0	73.1	72.2	74.0	73.1
15°	132.4	131.5	132.4	127.9	104.1	103.2	104.1	102.3	100.5	97.7	94.1
17.5°	158.0	155.3	146.1	142.5	143.4	140.7	133.3	118.7	110.5	106.9	105.0
20°	202.8	203.7	205.5	205.5	201.9	197.3	192.7	191.8	186.3	167.1	159.8
22.5°	243.0	243.0	238.4	233.8	228.3	229.3	222.9	208.2	203.7	198.2	195.5
25°	348.9	343.4	330.6	326.1	321.5	309.6	294.1	285.9	283.1	279.5	267.6
27.5°	394.6	387.3	384.5	379.0	362.6	343.4	337.0	332.5	337.0	315.1	299.6
30°	477.7	476.8	474.0	462.2	442.1	426.5	427.4	422.9	392.7	369.9	355.3
32.5°	562.6	556.2	578.2	556.2	538.0	544.4	536.1	507.8	486.8	463.1	460.3
35°	696.0	696.0	677.7	654.0	656.7	661.3	622.0	592.8	579.1	569.0	548.9
37.5°	818.4	812.9	779.1	766.3	780.9	755.3	711.5	692.3	687.8	670.4	638.4
40°	984.6	951.7	926.1	923.4	921.6	862.2	837.5	839.4	815.6	780.9	744.4
42.5°	1212.9	1160.0	1140.8	1142.6	1076.8	1029.3	1020.2	997.4	966.3	927.1	894.2
45°	1476.0	1424.8	1425.7	1368.2	1285.1	1244.0	1234.8	1199.2	1160.9	1115.2	1067.7
47.5°	1761.9	1725.3	1743.6	1628.5	1555.4	1531.7	1473.2	1417.5	1372.8	1317.1	1257.7
50°	2019.4	2038.6	1998.4	1897.9	1845.0	1813.0	1744.5	1675.1	1617.5	1532.6	1452.2
52.5°	2260.5	2297.1	2234.1	2141.8	2149.1	2087.9	2034.9	1964.6	1887.9	1787.4	1702.5
55°	2501.7	2509.9	2457.8	2427.7	2425.9	2386.6	2362.8	2312.6	2209.4	2108.0	2069.7
57.5°	2805.8	2795.8	2759.2	2806.7	2810.4	2823.2	2848.7	2796.7	2765.6	2691.6	2632.3
60°	3245.1	3236.9	3253.4	3393.1	3421.4	3506.4	3524.6	3526.4	3500.0	3523.7	3379.4
62.5°	3633.3	3666.2	3773.1	3837.9	3904.6	3986.8	4005.0	3971.2	3988.6	3990.4	3878.1
63°	3689.9	3715.5	3826.0	3881.7	3945.7	4014.2	4034.3	4008.7	4024.2	4008.7	3923.8
65°	3714.6	3726.5	3856.2	3841.6	3922.8	3953.0	3901.8	3891.8	3949.3	3867.1	3851.6
67.5°	3350.2	3422.3	3509.1	3509.1	3572.1	3565.7	3497.2	3511.8	3512.7	3480.8	3472.6
70°	2801.2	2947.4	2965.6	3031.4	3075.3	3036.9	3022.3	3032.3	2955.6	2973.0	2896.2
72.5°	2228.6	2385.7	2414.9	2537.3	2550.1	2463.3	2484.3	2424.0	2340.0	2287.9	2182.0
75°	1622.1	1721.7	1808.4	1843.1	1844.1	1761.9	1726.2	1587.4	1464.1	1316.1	1276.9
77.5°	1132.6	1121.6	1154.5	1135.3	1006.5	965.4	849.4	781.8	718.8	609.2	548.9
80°	915.2	905.1	920.7	879.6	823.8	777.3	694.1	632.0	561.7	514.2	441.1
82.5°	780.9	822.0	832.1	773.6	745.3	706.0	610.1	542.5	474.0	412.8	355.3
85°	297.8	355.3	350.7	365.3	366.3	346.2	305.1	242.0	191.8	155.3	126.0
87.5°	115.1	128.8	120.6	119.6	120.6	110.5	94.1	83.1	70.3	56.6	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	37.4	35.6	35.6	33.8	33.8	32.9	32.9	32.0	32.0	31.1	31.1
5°	49.3	49.3	48.4	46.6	42.0	40.2	36.5	33.8	32.9	32.0	31.1
7.5°	51.1	51.1	50.2	50.2	49.3	48.4	47.5	44.8	40.2	36.5	33.8
10°	62.1	60.3	61.2	63.0	62.1	62.1	61.2	60.3	58.5	56.6	45.7
12.5°	72.2	71.2	69.4	65.8	63.9	63.0	63.0	62.1	61.2	60.3	58.5
15°	91.3	88.6	87.7	84.9	83.1	80.4	81.3	80.4	78.5	74.9	66.7
17.5°	101.4	99.6	96.8	97.7	95.9	90.4	81.3	78.5	75.8	73.1	70.3
20°	157.1	154.4	148.9	139.7	128.8	123.3	118.7	114.2	115.1	114.2	106.9
22.5°	183.6	167.1	157.1	149.8	147.0	147.0	143.4	145.2	133.3	129.7	114.2
25°	246.6	234.7	221.9	214.6	211.0	202.8	187.2	176.3	164.4	160.7	148.9
27.5°	295.0	284.1	284.1	272.2	252.1	236.6	221.0	211.9	197.3	187.2	174.4
30°	355.3	341.6	324.2	302.3	283.1	268.5	257.6	235.6	221.9	208.2	182.7
32.5°	443.9	418.3	396.4	376.3	358.9	329.7	312.4	294.1	265.8	236.6	223.8
35°	526.1	494.1	469.5	448.5	412.8	392.7	366.3	325.2	295.0	280.4	251.2
37.5°	606.5	576.3	552.6	511.5	479.5	445.7	401.9	371.7	345.2	308.7	268.5
40°	711.5	677.7	629.3	593.7	551.7	495.0	462.2	425.6	380.9	336.1	302.3
42.5°	849.4	795.5	756.3	711.5	634.8	598.2	553.5	488.6	432.0	391.8	336.1
45°	1015.6	959.9	917.9	830.2	774.5	718.8	651.2	575.4	518.8	455.8	408.3
47.5°	1191.9	1153.6	1064.1	976.4	921.6	838.5	760.8	682.3	603.7	548.0	462.2
50°	1412.0	1315.2	1216.6	1153.6	1065.0	971.8	880.5	780.9	712.4	626.6	543.4
52.5°	1632.2	1498.8	1427.6	1334.4	1213.8	1107.0	1001.0	904.2	807.4	715.2	616.5
55°	1929.0	1795.6	1688.8	1554.5	1417.5	1295.1	1185.5	1065.9	959.9	841.2	733.4
57.5°	2471.5	2324.5	2171.0	1970.1	1803.0	1655.0	1507.0	1365.5	1207.4	1079.6	949.0
60°	3282.6	3128.2	2917.2	2682.5	2424.0	2193.9	1982.9	1771.0	1575.5	1418.4	1216.6
62.5°	3816.0	3657.1	3461.6	3183.0	2909.9	2604.9	2341.8	2047.7	1829.4	1603.8	1417.5
63°	3869.0	3700.0	3503.6	3239.7	2951.0	2665.2	2398.5	2077.9	1854.1	1627.6	1434.9
65°	3787.7	3682.6	3500.0	3278.9	3055.2	2776.6	2485.2	2170.1	1917.1	1687.0	1461.4
67.5°	3384.9	3336.5	3217.7	3097.2	2897.1	2703.5	2436.8	2159.2	1890.6	1672.3	1464.1
70°	2867.0	2800.3	2707.2	2658.8	2520.8	2356.4	2172.9	1955.5	1761.9	1547.2	1358.2
72.5°	2142.7	2011.2	1936.3	1855.0	1767.3	1652.3	1545.4	1423.0	1265.9	1151.7	961.8
75°	1121.6	975.5	875.9	759.0	664.9	569.0	517.9	483.2	430.2	371.7	328.8
77.5°	454.8	380.0	306.9	261.2	196.4	157.1	134.3	118.7	109.6	97.7	90.4
80°	381.8	305.1	245.7	186.3	137.0	99.6	74.0	57.5	49.3	42.9	39.3
82.5°	308.7	264.9	220.1	173.5	133.3	107.8	79.5	56.6	41.1	32.9	28.3
85°	98.6	86.8	67.6	56.6	46.6	39.3	32.9	26.5	23.7	21.9	20.1
87.5°	41.1	32.0	29.2	26.5	25.6	24.7	24.7	22.8	21.0	18.3	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: UTLD-E02-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
2.5°	30.1	30.1	29.2	30.1	28.3	26.5	25.6	24.7	23.7	23.7	23.7
5°	31.1	30.1	29.2	28.3	25.6	23.7	21.9	20.1	22.8	20.1	13.7
7.5°	32.0	31.1	29.2	28.3	25.6	22.8	21.0	12.8	8.2	8.2	9.1
10°	42.9	40.2	39.3	36.5	33.8	24.7	15.5	8.2	7.3	11.0	12.8
12.5°	46.6	43.8	41.1	38.4	32.0	26.5	12.8	11.0	13.7	11.0	11.9
15°	63.0	53.9	51.1	48.4	42.9	31.1	14.6	14.6	13.7	11.9	13.7
17.5°	69.4	59.4	56.6	54.8	42.0	20.1	16.4	17.4	13.7	15.5	12.8
20°	100.5	89.5	81.3	77.6	56.6	29.2	22.8	16.4	17.4	13.7	15.5
22.5°	115.1	106.9	98.6	96.8	63.9	32.0	26.5	22.8	16.4	16.4	14.6
25°	142.5	131.5	117.8	105.9	67.6	40.2	32.0	22.8	19.2	15.5	14.6
27.5°	161.7	143.4	131.5	124.2	73.1	42.0	31.1	25.6	19.2	14.6	12.8
30°	169.0	158.9	142.5	124.2	74.0	43.8	32.9	24.7	19.2	14.6	13.7
32.5°	206.4	183.6	159.8	146.1	79.5	46.6	32.0	24.7	18.3	13.7	12.8
35°	221.0	199.1	173.5	154.4	83.1	44.8	31.1	21.9	16.4	12.8	10.0
37.5°	244.8	212.8	188.2	164.4	84.0	42.0	28.3	21.0	14.6	11.0	9.1
40°	262.1	235.6	199.1	172.6	84.0	39.3	26.5	18.3	12.8	9.1	7.3
42.5°	303.2	256.7	220.1	189.1	85.9	35.6	23.7	15.5	11.0	6.4	5.5
45°	347.1	302.3	253.9	216.5	87.7	32.9	21.0	13.7	8.2	4.6	2.7
47.5°	409.2	350.7	295.9	248.4	88.6	30.1	19.2	11.9	6.4	2.7	1.8
50°	468.5	405.5	338.9	290.4	90.4	27.4	16.4	10.0	4.6	1.8	0.9
52.5°	538.0	460.3	392.7	324.2	91.3	25.6	14.6	8.2	2.7	0.9	0.0
55°	636.6	554.4	459.4	387.3	93.2	22.8	11.9	6.4	1.8	0.9	0.0
57.5°	833.0	721.5	604.6	500.5	102.3	20.1	10.0	4.6	0.9	0.9	0.0
60°	1072.3	948.1	793.7	643.0	120.6	17.4	8.2	2.7	0.9	0.0	0.0
62.5°	1245.8	1086.0	902.4	739.8	133.3	14.6	7.3	1.8	0.9	0.9	0.0
63°	1274.1	1101.5	910.6	746.2	134.3	14.6	6.4	1.8	0.9	0.0	0.0
65°	1295.1	1116.1	921.6	756.3	137.0	12.8	5.5	1.8	0.9	0.9	0.0
67.5°	1277.8	1084.1	895.1	737.1	138.8	11.0	4.6	1.8	0.9	0.9	0.9
70°	1159.0	986.4	821.1	673.1	128.8	9.1	3.7	1.8	0.9	0.9	0.9
72.5°	833.0	742.6	590.9	485.9	98.6	8.2	3.7	2.7	0.9	1.8	1.8
75°	280.4	251.2	209.2	185.4	57.5	5.5	2.7	2.7	0.9	1.8	1.8
77.5°	80.4	74.9	64.8	59.4	29.2	4.6	2.7	2.7	0.9	2.7	2.7
80°	34.7	32.0	28.3	24.7	12.8	3.7	2.7	3.7	0.9	3.7	2.7
82.5°	25.6	22.8	20.1	16.4	7.3	3.7	3.7	4.6	0.9	3.7	3.7
85°	18.3	16.4	13.7	11.9	5.5	3.7	3.7	4.6	1.8	4.6	4.6
87.5°	14.6	12.8	11.0	8.2	5.5	3.7	3.7	5.5	1.8	5.5	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	30.1	30.1	30.1
2.5°	23.7	24.7	24.7
5°	11.9	12.8	12.8
7.5°	10.0	11.0	11.0
10°	13.7	13.7	13.7
12.5°	12.8	13.7	13.7
15°	14.6	15.5	15.5
17.5°	12.8	16.4	17.4
20°	14.6	14.6	14.6
22.5°	14.6	15.5	15.5
25°	13.7	13.7	13.7
27.5°	13.7	13.7	13.7
30°	11.9	13.7	13.7
32.5°	11.9	11.9	11.9
35°	11.0	11.0	11.0
37.5°	9.1	10.0	10.0
40°	7.3	7.3	7.3
42.5°	4.6	4.6	4.6
45°	2.7	2.7	2.7
47.5°	1.8	1.8	1.8
50°	0.9	0.9	0.9
52.5°	0.9	0.9	0.9
55°	0.0	0.9	0.9
57.5°	0.0	0.0	0.9
60°	0.0	0.0	0.9
62.5°	0.0	0.0	0.9
63°	0.0	0.0	0.9
65°	0.9	0.0	0.9
67.5°	0.9	0.9	0.9
70°	0.9	0.9	0.9
72.5°	1.8	0.9	1.8
75°	1.8	1.8	1.8
77.5°	2.7	1.8	1.8
80°	2.7	2.7	1.8
82.5°	3.7	2.7	0.9
85°	3.7	3.7	1.8
87.5°	4.6	4.6	1.8
90°	0.0	0.0	0.0

(END OF REPORT)